Summary of Changes
ENERGY STAR® for Residential Ventilating Fans
Final Draft Version 2.0 Specification

In this document, EPA highlights the major changes made to the ***Draft 2*** Version 2.0 specification for ENERGY STAR qualified Residential Ventilating Fans. This document is intended as a road map to assist stakeholders in reviewing the ***Final Draft*** Version 2.0 specification. Changes to each Section of the specification are provided below.

1) **Definitions**:

The following products may now qualify as ENERGY STAR and are included in the definition of Residential Ventilating Fan: single and multi-port in-line fans. As such, a definition has been added for In-Line Ventilating Fan.

Ventilating fans with electric resistance heating elements may continue to qualify until December 31, 2004. Starting January 1, 2005, these products will no longer be able to qualify as ENERGY STAR.

2) **Qualifying Products**:

References to HVI testing and certification have been moved to Section 3, *ENERGY STAR Specification Requirements for Qualifying Products*, and Section 4, *Product Testing*. In-line fans (single and multi-port) have been added to the list of qualifying products.

3) **ENERGY STAR Specification Requirements for Qualifying Products**:

The following changes have been made in Table 1:

- The maximum size for Bathroom and Utility Room Fans has been raised from 250 to 500 cfm.
- An in-line fan (single and multi-port) product category has been added to the table, along with a 2.8 cfm/Watt minimum efficacy requirement.
- The following revisions have been made to the airflow ranges for Bathroom and Utility Room Fans:

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1 – 75 cfm	10 – 80 cfm
76 – 130 cfm	90 – 130 cfm
131 – 250 cfm	140 – 500 cfm

A. **Lighting Requirements**

Range Hoods with incandescent light sources or sockets may continue to qualify through December 31, 2004. Starting January 1, 2005, all qualifying range hoods with light sources will be required to meet the requirements set forth in Table 2 of this section. All Bathroom and Utility Room Fans with light sources must meet the Table 2 requirements as of October 1, 2003.

B. **Quality Assurance Requirements**

1. Early Product Failure

The minimum warranty requirement continues to be one year for all qualifying ventilating fan models. The word “comprehensive” has been deleted from this requirement.

2. Fan Sound Levels

The following changes were made to Table 3:

- The maximum sone level for Range Hoods has been decreased from 3.0 to 2.0 (tested at working speed).
- The maximum sone level for Bathroom and Utility Room Fans has been increased from 1.5 to 2.0.
- The following revisions have been made to the airflow ranges for Bathroom and Utility Room Fans:

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1 – 75 cfm	10 – 80 cfm
76 – 130 cfm	90 – 130 cfm
131 – 250 cfm	140 – 500 cfm.

3. Installed Fan Performance

The minimum rated airflow requirements tested at 0.25 in. w.g. have been revised as follows:

Product Category	**Rated Airflow**
Bathroom and Utility Fans (10 – 80 cfm)	60%
Bathroom and Utility Fans (90 – 130 cfm)	70%
Bathroom and Utility Fans (140 – 500 cfm)	70%
Range Hood (up to 500 cfm)	70%

C. **Inclusion of Installation Instructions**

In addition to general ventilating fan installation instructions, the following requirements are now included in this section:

- **In-Line Installation Instructions** – include on the product or in product literature
- **Range Hoods with Incandescent Light Sources** – provide recommendation to the consumer on the product packaging, in product literature, and on partner's Web site to use an ENERGY STAR qualified light source or incandescent bulbs that use no more than 50 watts total.
- **Ventilating Fan Models with Electric Resistance Heating** – provide clarification on product packaging, in product literature, and on partner's Web site that the heating element is designed for supplemental purposes only and does not contribute to the ENERGY STAR qualification of the product.

4) **Product Testing**:

Testing requirements for in-line (single and multi-port) fans have been added to this section: 0.20 in. w.g. static pressure (Wattage and cfm only). There are no sound testing requirements for in-line fans.

5) **Effective Date**:

An **October 1, 2003** effective date continues to be proposed in this Final Draft specification.

Phase-out dates are now provided in this section for ventilating fans with electric resistance heating and range hoods with incandescent light sources. As of January 1, 2005, these products will not be able to qualify as ENERGY STAR.

There continues to be no grandfathering of products that meet the Version 1.0 specification. These products may continue to carry the ENERGY STAR label as it is sold through the distribution channel; however, any product sold, marketed, or identified by the manufacturer as ENERGY STAR must meet the current specification requirement at that time. This is also true of ventilating fans with electric resistance heating and range hoods with incandescent lighting, within the Version 2.0 specification.